

# 小蹦蝗属二新种

(直翅目:斑腿蝗亚科)

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小蹦蝗属 *Pedopodisma* Zheng, 国内已知有3种, 即秦岭小蹦蝗 *P. tsinlingensis*, 突眼小蹦蝗 *P. protrocula* 和微翅小蹦蝗 *P. microptera*。作者发现二新种。模式标本存放中国科学院动物研究所。本文量度单位均为毫米。

长尾小蹦蝗 *Pedopodisma dolichypyga* 新种(图1—6)

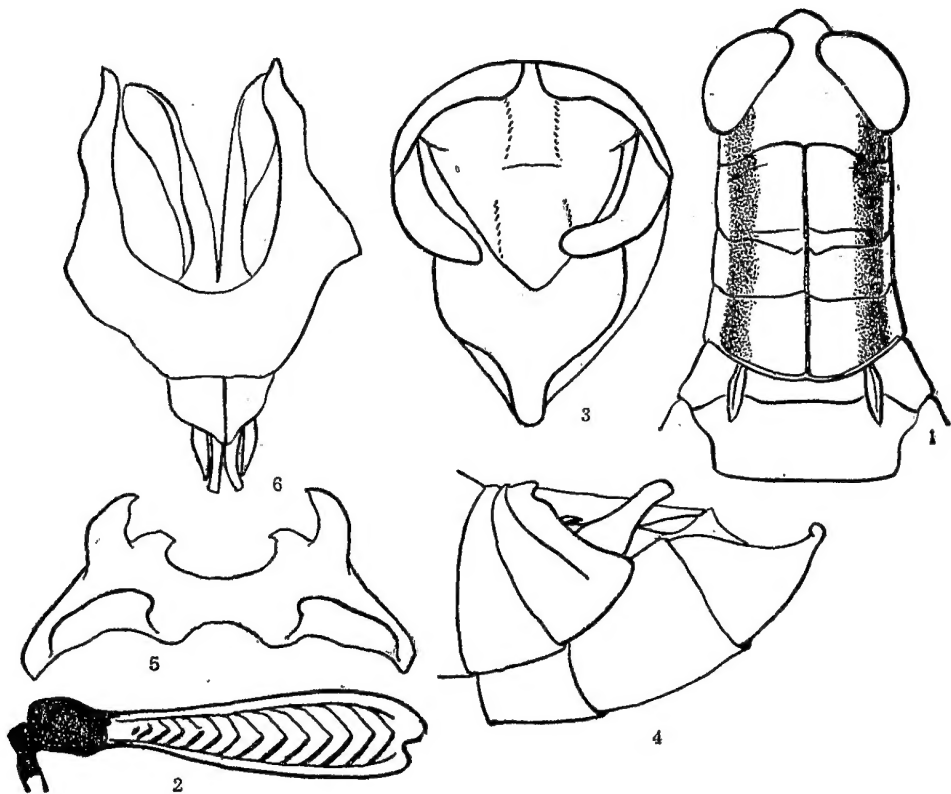


图1—6 长尾小蹦蝗 *Pedopodisma dolichypyga* sp. nov. (♂)

1. 头胸部(背面观); 2. 后足股节外侧; 3. 腹部末节(背面观);

4. 腹部末节(侧面观); 5. 阳茎基背片; 6. 阳茎复合体

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特征图由安英姬同志绘制, 特此致谢。

雄 体型中等。头短于前胸背板。颜面微后倾,颜面隆起纵沟不明显。头顶狭,复眼间头顶的宽度仅为触角间颜面隆起宽的一半。复眼大;卵圆形,垂直直径为眼下沟长的 2 倍。触角丝状,很长,到达后足股节的基部,中段一节长约为宽的 3 倍。前胸背板圆柱状,前、后缘沿中隆线处微凹入,中隆线低而细,后横沟较明显,位于中部之后,沟前区长约为沟后区长 2 倍,缺侧隆线。前胸腹板突圆锥状,顶端尖。中胸腹板侧叶间之中隔狭,中隔宽度小于长。后胸腹板侧叶在端部分开。前翅很小,鳞片状,超过中胸背板的后缘,但不到达后胸背板的中部,长约为宽的 3 倍。后足股节上侧上隆线平滑,长约为宽的 4.2 倍,下膝侧片的端部圆形。后足胫节缺外端刺,外缘具刺 9—10 个,内缘具刺 10—11 个。跗节爪间中垫大,几乎达爪的端部。腹部第 1 节背板两侧具发达的鼓膜器,末节背板后缘无尾片。肛上板三角形,基部中央具纵沟,两侧缘微隆起,端部具纵隆脊,顶端近直角状。尾须圆锥状,侧扁,略向内弯曲,端部近圆形。下生殖板长锥状,顶端尖。

体黄褐或褐色,复眼后方、胸、腹部两侧具黑色纵条纹,前胸背板中隆线处暗色,或体黑褐色,前胸背板沿中隆线两侧、腹部沿中隆线处具黄色纵条纹,前胸背板侧片的下缘黄色。后足股节绿色,膝部黑色。反足胫节青蓝色,基部黑色。

雌 近似雄性。体较大,复眼间头顶宽几乎与触角间颜面隆起等宽。复眼的垂直直径为眼下沟长的 1.3 倍。肛上板长三角形,长大于宽,顶端呈钝角状,基部约 1/3 处具一微弱的横脊。产卵瓣略长,顶端尖,上产卵瓣的上外缘具细齿。

体长: 雄性 16.5—19.2,雌 21.6—23;前翅: 雄 0.8—1,雌 1—1.5;前胸背板: 雄 4—4.8,雌 4.7—5;后足股节: 雄 11—11.5,雌 12.2—14。

正模♂,安徽黄山 1570 米,1978. VIII. 21,王书永。配模♀,安徽黄山 1600 米,1978. VIII. 20,王书永。副模 1♂ 1♀,同正模;1♂ 同配模;1♀,安徽黄山 1000 米,1978. VIII. 23,王书永。

本新种接近微翅小蹦蝗 *Pedopodisma microptera* Zheng,主要不同点为前者前翅较狭长,一般超过中胸背板的后缘;雄性尾须略内曲,端部圆,不向上翘,下缘中部不呈钝角;下生殖板的端部较长,尖。

### 尖翅小蹦蝗 *Pedopodisma epacroptera* 新种(图 7—12)

雄 体型中等。头短。颜面略后倾,颜面隆起全长略具纵沟。头顶宽、平,复眼间头顶宽等于触角间颜面隆起的宽。复眼卵形,垂直直径略大于水平直径,为眼下沟长的 1.8 倍。触角细长,超过前胸背板的后缘,中段一节的长约为其宽的 2.8—3 倍。缺头侧窝。前胸背板圆柱状,前、后缘沿中隆线处微凹入,中隆线低、细,前、中横沟微弱,后横沟较明显,位于中部之后,沟前区的长度约为沟后区长 2 倍,侧片长大于高。前胸腹板突圆锥状,顶端尖。中胸腹板侧叶间中隔的长约为其宽的 1.3 倍。后胸腹板侧叶彼此分开。前翅较短,不到达中胸背板的后缘,后翅消失。后足股节上侧上隆线平滑,长约为宽的 4 倍,下膝侧片的端部圆形。后足胫节缺外端刺,外缘具刺 9—10 个,内缘具刺 10—11 个。跗节爪间中垫大,几乎到达爪的端部。腹部第 1 节背板两侧具发达的鼓膜器,末节背板的后缘无尾片。肛上板三角形,基部中央具纵沟,两侧缘微突起,端部两侧具纵隆脊,顶端呈钝圆状。尾须圆锥形,侧扁,略向内向下曲,顶端圆。下生殖板短锥状,顶端钝圆。

体黄褐或褐色。复眼后方、胸部背板两侧、腹部 1—2 节背板两侧具黑色纵条纹,后足

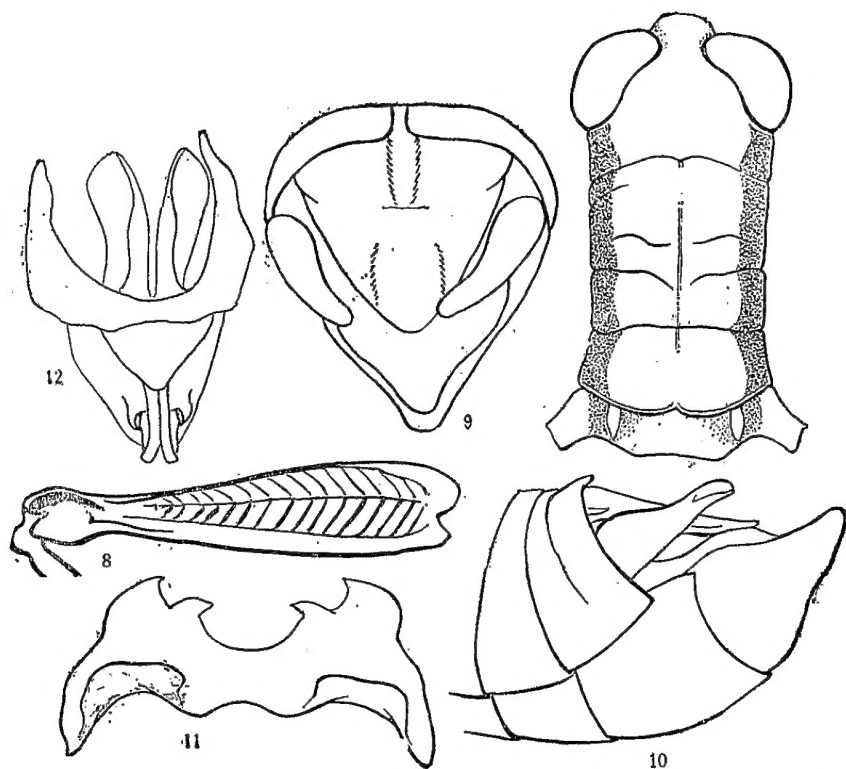


图 7—12 尖翅小蹦蝗 *Pedopodisma epacroptera* sp. nov. (♂)

7. 头、胸部(背面观); 8. 后足股节外侧; 9. 腹部末节(背面观);  
10. 腹部末节(侧面观); 11. 阳茎基背片; 12. 阳茎复合体

股节内、外侧淡红褐色, 上膝侧片黑褐色, 下膝侧片黄褐色。后足胫节蓝绿色。

雌 近似雄性。体型较粗壮, 前胸背板圆柱状, 往后逐渐加宽。肛上板长三角形, 基部  $1/3$  略凹陷, 并略具横脊。上产卵瓣的上外缘具细齿。

体长: 雄 20.3—20.5, 雌 24.3—26; 前胸背板: 雄 4.3—4.4, 雌 5.3—5.9; 前翅: 雄 0.4—0.5, 雌 1—1.5; 后足股节: 雄 10.8—11.2, 雌 13.9—14.2。

正模 ♂, 湖北神农架 900 米, 1980. VII. 26, 虞佩玉。配模 ♀, 1980. VII. 27, 虞佩玉。副模 1♂ 1♀, 同正模; 1♂ 同配模。

本新种近似秦岭小蹦蝗 *Pedopodisma tsinlingensis* Zheng, 但前翅狭尖, 尾须端部微下曲和阳茎基背片形状等特征不同于后者。

## TWO NEW SPECIES OF *PEDOPODISMA* ZHENG (ORTHOPTERA: CATANTOPINAE)

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Two new species of *Pedopodisma* Zheng from China are described in this paper. All type specimens are preserved in the Institute of Zoology, Academia Sinica.

### *Pedopodisma dolichypyga* sp. nov.

Male Size medium. Frons slight oblique, frontal ridge almost flat. Vertex narrow, the width of vertex between eyes as half the width of frontal ridge between antennae. Antennae longer, reaching the basis of hind femur. Pronotum cylindrical, anterior and posterior margin slightly emarginate. Prosternal spine conical, apex pointed. Width of interspace between mesosternal lobes narrower than its length. Elytra very small, scale, extending over posterior margin of mesonotum, but not reaching the middle of meranotum. Furcula absent. Anal plate triangular. Cercus conical slight incurve, apex rounded, subgenital plate conical, apex longer pointed.

Body yellow, with longitudinal stripes from behind eyes continued to the both sides of thorax, abdomen, and median keel of pronotum dark, inner and outer sides of hind femur yellow green or olive, knee lobes dark, or body brown, with yellow strip along both side of median keel of thorax, and median keel of abdomen, lower margin of lateral lobes of pronotum yellow.

Female as male. Valves of ovipositor slight long and apex pointed, upper valve with teeth.

Holotype ♂, Huangshan 1570 m. Anhui, 21. VIII. 1978, collected by Wang Shuyong. Allotype ♀, Huangshan 1600 m. Anhui, 20. VIII. 1978, collected by Wang Shuyong.

This new species is closely related to *P. microptera*, but differs from the latter in clytra longer, extending over margin of mesonotum, cercus slight incurve, apex rounded, lower margin not obtuse angled, apex of subgenital plate longer, pointed.

### *Pedopodisma epacroptera* sp. nov.

This new species resemble to *P. winlingensis* Zheng, but differs from the latter by clytra narrower, with apex point, cercus slightly decurved at apex and the form of epiphallus.

Holotype ♂, Shennongjia 900 m., Xubei, 26. VII. 1980, collected by Yu Peiyu. Allotype ♀ Shennongjia, Xubei, 27. VII. 1980, collected by Yu Peiyu. Paratypes 1♂ 1♀ as Holotype; 1♂ as Allotype.